

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

	licant' 9-204		gent's file reference	FOR FURTHER A	CTION	See Notification	on of Transmittal of International xamination Report (Form PCT/IPEA/416)
	International application No. PCT/DK 03/00768			International filing date 10.11.2003	(day/mont	h/year)	Priority date (day/month/year) 21.11.2002
_	mation 7C27		ent Classification (IPC) or be	oth national classification	and IPC		1
• • •	licant URO	SEAI	RCH A/S				
1.	This Auti	s inter hority	national preliminary exar and is transmitted to the	nination report has bee applicant according to	en prepar Article 30	ed by this Inte 3.	ernational Preliminary Examining
2.	This	s REP	ORT consists of a total o	of 5 sheets, including t	his cover	sheet.	
	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).						
	The	se an	nexes consist of a total o	f sheets.			
3.	This	repo	rt contains indications rel	ating to the following it	ems:		
	ı	Ø	Basis of the opinion	· ·			
	ii .		Priority				
	Ш	\boxtimes	•	pinion with regard to n	oveltv. in	ventive sten a	and industrial applicability
	IV		Lack of unity of invention		, ,	· oviiivo otop u	and industrial applicability
V ⊠ Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial app citations and explanations supporting such statement					ventive step or industrial applicability;		
	VI		Certain documents cite	d			
	VII		Certain defects in the in	nternational application			
	VIII		Certain observations or	n the international appli	ication		
Date	of sub	missio	n of the demand		Date of c	ompletion of thi	is report
29.0	29.05.2004				11.01.2	005	
	Name and mailing address of the international				Authorize	d Officer	
preiin	preliminary examining authority: European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d			6 eomu d	Breimai	er, W	- Janes
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International application No.

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ı		vas	113	v.	1110	ICN	ייי

1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Description, Pages									
	1-2	28	as originally filed							
	Cla	aims, Numbers								
	1-3	33	as originally filed							
2	. Wi lan	th regard to the langu guage in which the in	Jage, all the elements marked above were available or furnished to this Authority in the temational application was filed, unless otherwise indicated under this item.							
	Th	These elements were available or furnished to this Authority in the following language: , which is:								
		the language of a tr	anslation furnished for the purposes of the international search (under Rule 23.1(b)).							
		\cdot .								
3.	. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:									
		contained in the inte	ernational application in written form.							
	☐ filed together with the international application in computer readable form.									
	furnished subsequently to this Authority in written form.									
furnished subsequently to this Authority in computer readable form.										
		The statement that the listing has been furn	he information recorded in computer readable form is identical to the written sequence ished.							
4. The amendments have resulted in the cancellation of:										
		the description,	pages:							
		the claims,	Nos.:							
		the drawings,	sheets:							
5.		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).								
		(Any replacement sh report.)	neet containing such amendments must be referred to under item 1 and annexed to this							
6.	Add	itional observations, i	f necessary:							

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•	i. NO	n-establishment of opinion	with r	egard to nov	elty, inventive step and industrial applicability			
	 The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non- obvious), or to be industrially applicable have not been examined in respect of: 							
		☐ the entire international application,						
	\boxtimes	claims Nos. 1-10, 21-25, 27, 28, 33						
	because:							
	the said international application, or the said claims Nos. 33 relate to the following subject matter who does not require an international preliminary examination (specify):							
	see separate sheet							
the description, claims or drawings (indicate particular elements below) or said claims Nos. are that no meaningful opinion could be formed (specify):								
the claims, or said claims Nos. are so inadequately supported by the description that no mean could be formed.					ely supported by the description that no meaningful opinion			
	Ø	no international search report	ional search report has been established for the said claims Nos. 1-10, 21-25, 27, 28					
A meaningful international preliminary examination cannot be carried out due to the failure of the nucleot or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions:					annot be carried out due to the failure of the nucleotide and ndard provided for in Annex C of the Administrative			
		the written form has not been furnished or does not comply with the Standard.						
the computer readable form has not been furnished or does not comply with the Standard.								
٧.	V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
1.	1. Statement							
	Nove	elty (N)	Yes: No:	Claims Claims	12-14, 29-33 1-11, 15-28			
	Inve	ntive step (IS)	Yes: No:	Claims Claims	12-14, 29-33			
	Indu	strial applicability (IA)	Yes: No:	Claims Claims	1-32 33 ?			
2.	Citat	ions and explanations						

see separate sheet

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Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

The aryl ureido derivatives of general formula (I) according to claim 1 is so generally formulated that no reasonable search has been carried out (see ISA/210). As Claims 1-10, 21-25, 27 and 28 have not been searched, a substantive examination cannot be carried out.

Claim 33 relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(I) PCT).

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

novelty

Although a substantive examination cannot be carried out (see under item III), the following citations have to be taken into consideration in order to file a new set of claims.

The subject-matter according to claims 1-11 and 15-28 is not novel pursuant to Art. 33(2) PCT having regard to the cited documents D1-D11.

In particular it is referred to:

- D1 (WO 00/24707), claims 1 and 2 and pp. 10 and 11;
- D2 (WO 98/47879), general formula (I) and examples;
- D3 (WO 99/38846), general formulae (III)/(IX) and examples on pp. 31-33;
- D4 (WO 99/00357), general formula (I) and examples 124, 125 in table 1;
- D5 (US-A 6 417 393), general formula (I), claim 1 and examples;
- D6 (WO 02/39987), general formulae (I)/(II), pp. 8-15, examples;
- D7 (CA XP002277267), tetrazolyl substituted phenyl ureido derivative;
- D8 (CA XP002277268), carboxyl substituted phenyl ureido derivatives;
- D9 (US-A 2 722 544), sulfonyl substituted phenyl ureido derivatives, examples;
- D10 (GB-A 709 455), sulfonyl substituted phenyl ureido derivatives, examples;
- D11 (WO 97/29743), general formula (I), pp. 3 and 5 with claims 1 and 11.

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The subject-matter according to claims 12-14 and 29-33 is considered to be novel pursuant to Art. 33(2) PCT since none of the above documents discloses aryl ureido derivatives of the present general formula (V) as well as the use of the aryl ureido benzoic acid derivatives as a medicament for treating diseases or disorders responsive to modulation of an aspartate or a glutamate receptor.

inventive step

The subject-matter according to claims 12-14 and 29-33 seems not to be based on an inventive step pursuant to Art. 33(3) PCT.

At present it is doubtful whether the problem posed (provision of alternative urea derivatives for treating Parkinsons, Alzheimers disease, stroke, shock, psychosis etc. in view of e.g. D11, p. 113; WO 94/22807, cited on present page 1, I. 30; EP-A 0 656 350 (D12), pp. 7/8 and J.Med.Chem., 33, 1990, pp. 854-861 (D13), table (I)) is indeed solved. No data are available from the application documents which show that the phenyl carbamoyl indazole derivatives of general formula (V) exhibit the desired efficacy. In table 1 only sulfonyl and carboxyl substituted urea derivatives have been tested. Thus, in the absence of any data, an inventive step cannot be acknowledged.

industrial applicability

For the assessment of the present claim 33 on the question whether they are industrially applicable, no unified criteria exist in the PCT Contracting States. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.

further remarks

- a. It is noted that, when filing a new set of claims, in order for the present aryl ureido alternatives to be regarded as uniform (Rule 13.1 PCT) a significant structural element which is shared by all the alternatives should constitute a structurally distinctive portion in view of the available prior art.
- b. Contrary to the requirements of Rule 5.1(a)(ii) PCT, the documents D11-D13 are not suitably cited in the description.